

4

## HIGH-WATER CONTENT POLYMER GEL

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### Abstract

**PURPOSE:** To obtain a high-water content polymer gel having sufficient shape retentiveness and marked cooling effect by mixing polysodium acrylate with polyacrylic acid, glycerol and aluminum chloride as the principal components and specifying the water content.

**CONSTITUTION:** A high-water content polymer gel mainly consisting of polysodium acrylate, polyacrylic acid, glycerol and aluminum chloride and having a water content of 90-98wt.%. It can form a gel structure having a function of markedly cooling especially the skin, good adhesiveness to the skin and sufficient shape retentiveness. Therefore, when it is used as a cataplasm for covering and protecting the affected parts such as contusions, sprains, blisters, calli, shoe sores, traumata, burns, insect bites, decubiti, suppurative dermatitis or sunburns, it can sufficiently cool them and is very effective in ameliorating the conditions. Because it has good adhesiveness to the skin and sufficient shape retentiveness, it can form a cataplasm which easily fits the skin, is difficultly peeled or fallen from the skin and satisfactorily absorbs an external shock.

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